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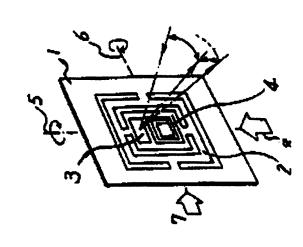
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(54) OPTICAL DEFLECTING ELEMENT

(57)Abstract:

gimbals spring 2 by metal vapor deposition or plating. The constant current independently. The galvano mirror 3 and thin film coil 4 are formed on the CONSTITUTION: A substrate 1 made of Si single crystal is worked into the gimbals spring by photoengraving. The gimbals spring 2 rotates and controlling the application of magnetic fields in two X and Y directions surface of the center movable part of the substrate 1 supported with the PURPOSE: To make a two-dimensional deflection scan through one is supplied to the thin film coil 4 to vary a magnetic field 7 in the X oscillates about an X-directional axis 5 and an Y-directional axis 6 element by supporting a galvano mirror with a gimbals spring, and while flowing a current to the thin film coil on a mirror surface.



element rotates and oscillates about the axes 5 and 6 independently of each other with electromagnetic direction and a magnetic field 8 in the Y direction independently of each other, and consequently the force, so that reflected light from the mirror 3 is deflected in two dimensions.

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